Subject: Re: Changing variable type
Posted by on Mon, 16 May 2016 12:19:51 GMT
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Den måndag 16 maj 2016 kl. 13:34:52 UTC+2 skrev Helder:
> On Monday, May 16, 2016 at 12:31:45 PM UTC+1, Helder wrote:
>> On Monday, May 16, 2016 at 11:43:54 AM UTC+1, Mats Löfdahl wrote:
>>> Is there a way in IDL to change the type of an array, specifically a 16-bit integer into a 16 bit unsigned integer?
>>>
>>> No, I do not mean b = uint(a). This makes a new array and keeps the values. I want to change the variable type of the existing array (from 2 to 12), so the bit values are interpreted differently. Is this possible?
>>>
>>> /Mats
>>
>> Hi Mats,
>> I think you're looking for the offset keyword in the uint function, but I'm not 100% sure (because this also makes a copy of the variable... there is no /temporary keyword)
>>
>> IDL> a = -1
>> IDL> help, a
>> A INT = -1
>> IDL> print, uint(a,0)
>> 65535
>>
>> Would this do what you want?
>>
>> Cheers,
>> Helder
>
> Sorry, you wanted an array, so you have to do this:
> IDL> a = indgen(20)
> IDL> a[10:19] = -indgen(10)
> IDL> a
> 0 1 2 3 4 5 6 7 8 9 0 -1 -2 -3 -4 -5 -6 -7 -8 -9
> IDL> print, uint(a,0,20)
> 0 1 2 3 4 5 6 7 8 9 0 65535 65534 65533 65532 65531 65530 65529 65528 65527
>
> Does it make sense?
>
> Cheers,
> Helder

I'd like to avoid making new variables if possible.

I guess I was thinking that IDL variables in reality were some sort of objects, and there would be methods that just change the type property. Or something like that.
